



KE2 MasterView

Overview

Accessing the web page of a KE2 Evaporator Efficiency controller reveals a great deal of information about the system performance, setpoints and allows for quick adjustments. While this information is also available using the user interface of the controller, when networked, the controller's information can be accessed, reviewed, and changed from anywhere there is network access.

KE2 Therm Evaporator Efficiency

KE2 Therm Solutions (888) 337 3358	IP Address: 10.1.0.15 MAC Address: 00.04.A3.14.E6.F8	Location: (Set Location)	
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System Mode
Refrigerate

Room Temp
-8.2 F

Coil Temp
-17.3 F

Compressor
Relay On

Evaporator Fan
Relay On

Alarm Relay
Relay Off

All Clear

Defrost
Relay Off

Door Sw
Closed

Dgt Input2
Disabled

Dgt Input3
Disabled

Aux Temp
Disabled

Superheat
N/A

Suction Press
Sensor

T1 Suct Temp
Disabled

Sat Temp
N/A

Valve Position
Mechanical

Home Page
Settings
Network
Setpoints
Graphs
Siteview
Active Users: 1



Home Page

What the screen shows: Displays real time system information, and shows the interaction of multiple system conditions

This screen looks at the system conditions, and can help with diagnostics, system performance, or just offer peace of mind that the system is running properly.

For each parameter:
First line is function
Second line is the
current system
performance

Function	Performance
System Mode	Refrigerate
Room Temp	-8.2 F
Coil Temp	-17.3 F
Compressor	Relay On
Evaporator Fan	Relay On
Alarm Relay	Relay Off
Defrost	Relay Off
Door Sw	Closed
Dgt Input2	Disabled
Dgt Input3	Disabled
Aux Temp	Disabled
Superheat	N/A
Suction Press	Sensor
T1 Suct Temp	Disabled
Sat Temp	N/A
Valve Position	Mechanical

All Clear

System alarms and messages are displayed.

Note: When alarms are active, messages are not displayed.

See page 3

See page 5

See page 6

See page 7

See page 8

Displays number of users currently viewing this specific controller's webpage.

Settings

What the screen shows: The Settings page contains controller configuration for email and web access. It also allows installers to customize the MasterView with their company information. The Settings page includes the buttons to update the controller, reset power to the controller, send a test e-mail, clear data collected, and clear alarms. If the optional Data key was purchased, it is activated on this screen.

KE2 Therm Evaporator Efficiency

Customer information is displayed

Customer may input their company information

Standard SiteView Member SiteView MANAGER

Only displayed if SiteView Manager is selected.

Customer information displayed:

- KE2 Therm Solutions (888) 337 3358
- IP Address: 10.1.0.15
- Location: (Set Location)
- MAC Address: 00:04:A3:14:E6:F8

Location Settings

- Business Name: KE2 Therm here
- Phone Number: (888) 239 3333
- Location: Doug's office

Alert Notifications

- Email Server: SMTP over SSL
- User Name:
- Password:
- Address for Alerts: **Test Email**
- Alerts Subject: **Submit**

Web Page Log In Update

- User Name: **8-13 characters**
- Password: **8-13 characters**

API

- Key: **8-16 characters**

SiteView Option

- Select: SiteView MANAGER
- SNTP Server: 0.pool.ntp.org

SmartAccess Settings

- Portal Host: smartaccess.ke2therm.net
- Site: ke2thermcomp
- Password:
- Press to Disable**

Logging Options

- User Name: ke2 **Provided by KE2 Therm DO NOT CHANGE**
- Password: Ke2DataLog1
- Server for Logging: ftp.ke2therm.com
- Log Interval (minutes): 10

Firmware

- Bootloader: 20302V4.0T **Update firmware. Refer to Q.5.6 KE2 Bootloader Guide.**

Controller

- Reset** **Remotely reboots the controller.**

Logs

- Clear** **Removes all data stored by controller.**

Alarms

- Clear** **Resets controller's alarms and alarm conditions for 60 minutes.**

For help in setting up an email account see bulletin Q.5.3 Establishing Gmail.

Use to verify proper email configuration.

Use to verify proper email configuration.

Use to customize the User Name and Password from the default setting.

Use to verify proper email configuration.

Basic (Port 25)
Advanced (Port 465)

Site and Password may be changed by customer to create unique Smart Access login

Required to make changes to Settings page. See page 4.

The Smart Access Settings are provided by KE2 Therm, and are only needed when using KE2 Therm's customer portal for accessing the controller.

Navigation: Home Page, Settings, Network, Setpoints, Graphs, Siteview, Save, Login

Login

What the screen shows: The Login feature prevents unauthorized access to the controller.
The user must enter the password to make changes to the Settings page, Network page, and Setpoints page.

Version 3.0 and prior

For firmware version 3.0 and prior, to make changes to the Settings page, Network page and Setpoints page the Password must be provided.

The default Password: 2222

Version 3.3 & Version 4.0

To make changes to the Settings page, Network page and Setpoints page the User Name and Password must be provided.

The default User Name: ke2admin

The default Password: ke2admin

For security reasons, the User Name and Password should be changed from the default. Once you are logged in, go to the Settings page to change the User Name and Password, see page 3.

Network Setup

What the screen shows: Enables the user to Bond the KE2 Evap for multiple evaporator applications, and provides setup for adding controllers to an existing network.

IP Address may be changed to match the onsite network. Typically the subnet mask, gateway and primary DNS should also be changed.

Network settings may be changed to match customer's environment.

IP set as Static or Dynamic
 Off - if selected IP address is Static
 On - if selected IP address is Dynamic

Discover finds all of the KE2 Evap controllers located on the network. The information then populates the appropriate spaces on the page.

Once discovered, Bond creates a link between controllers that coordinates the refrigeration and defrost cycles. When bonding, user should review Multi-evap Setpoints.

Select the controllers the user wants to bond.
 Group 1 = will be bonded
 blank = not bonded

Clears all fields

Saves bonded grouping. Controllers must be Grouped before they are bonded.

Prevents unauthorized access to the controller. User must enter User Name and Password to make changes to the Network Setup page.

⚠ Network information may only be changed while the controller is not bonded.

Setpoints

What the screen shows: Allows the user to setup the controller, and to customize the controller to meet specific application needs.

The three primary setpoints – Room Temp, Defrost Type and Valve Type are in the gold boxes. Only these three are necessary for the controller to begin normal operation.

KE2 Therm Evaporator Efficiency

KE2 Therm Solutions (888) 337 3358 | IP Address: 10.1.0.15 | Location: (Set Location)
 MAC Address: 00:04:A3:14:E6:F8

Refrigeration
 Room Temp: **-10.0 F**
 Refrigerant: R-404A
 Min Comp Runtime: 2 min
 Min Comp Offtime: 5 min
 Air Temp Diff: 1.0 F
 2nd Room Temp: -50.0 F
 Aux Temp 1: T1 Suct Temp
 Aux Temp 4: Disabled
 Refrig Fan Mode: On w/Compr
 Fan Speed: 0.0 %
 Temp Units: Fahrenheit
 Multi Air Tmp Ctrl: Warmest Air

Defrost
 Defrost Type: **Electric**
 Defrost Term Temp: 50.0 F
 Drain Time: 2 min
 Fan Delay Temp: 20.0 F
 Max Fan Delay Time: 2 min
 Defrost Fan State: Off
 Defrost Mode: Demand
 Electric Defrost Mode: Pulse
 Defrost Pmp Dwn Time: 0 min
Demand Defrost
 Defrost Parameter: 30
Schedule Defrost
 Defrost Per Day: 5
 Max Defrost Time: 45 min
 First Defrost Delay: 120 min
RunTime Defrost
 Comp Run Time: 6 hr

Expansion Valve
 Valve Type: **Mechanical**
 Superheat:
 Max Oper Press:
 Motor Step Rate:
 Max Valve Steps:
 Motor Type: Bipolar

Bonded Controllers
 Multi Evap Cool: Synchronized
 Multi Evap Defrost: Synchronized
 Multi Evap Sensor: Shared

Digital Inputs
 Dig In 1 Mode: Door Switch | Dig In 1 State: Closed
 Dig In 2 Mode: Disabled | Dig In 2 State: Closed
 Dig In 3 Mode: Disabled | Dig In 3 State: Closed

Sensor Offsets
 Air Temp Offset: 0.0 F
 Coil Temp Offset: 0.0 F
 Suct Pressure Offset: 0.0 psi
 Suct Temp Offset: 0.0 F
 Aux Temp Offset: 0.0 F

PID
 Proportional: 3
 Integral: 5
 Derivative: 3
 Aux Relay Mode: Alarm Relay

Alarms
 Hi Temp Alarm Offset: 10.0 F | Hi Temp Alarm Delay: 60 min
 Low Temp Alarm Offset: 4.0 F | Low Temp Alarm Delay: 10 min
 Door Alarm Delay: 30 min

Manual Control
 Current Mode: Refrigerate
 Go To: Defrost

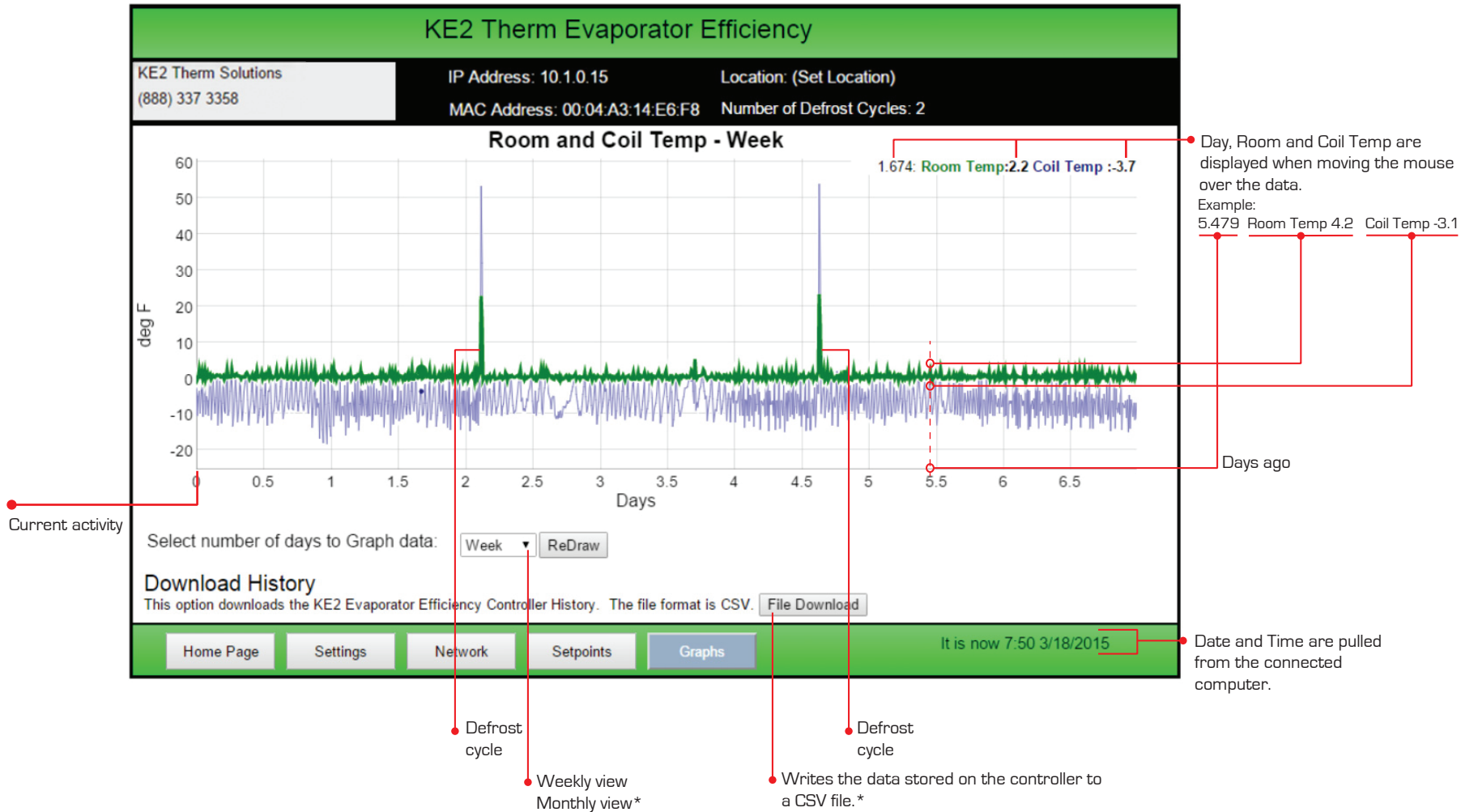
Navigation: Home Page | Settings | Network | **Setpoints** | Save | Restore | Logout

Annotations:

- IN YELLOW:** Three setpoints needed for the controller to begin system operation.
- Electric:** Air, Hot Gas - Comp On, Hot Gas - Comp Off
- Digital Inputs:**
 - Dig In 1 Mode:** Disabled, 2nd Temp, Door Switch, Ext Alarm, Sys Off
 - Dig In 2 Mode:** Disabled, 2nd Temp, Door Switch, Ext Alarm, Defrost Interlock, Defrost Lockout, Sys Off
 - Dig In 3 Mode:** Disabled, 2nd Temp, Door Switch, Ext Alarm, Sys Off, Light Switch
- Active when Open (i.e. door open)** / **Active when Closed**
- While viewing the Setpoints page, the Manual Control information will not automatically update.** This prevents losing setpoint changes. If manual control is necessary, refresh the page before going to the next system mode.
- Defrost Type Legend:**
 - Shared
 - Not Shared
 - Pulse
 - Permanent
 - Synchronized
 - Independent
 - Demand
 - Schedule
 - RunTime
 - Off
 - On
- Refrigerant List:** R-404A, R-717, R-507, R-438A, R-407A, R-408A, R-407C, R-409A, R-422A, R-407F, R-422D, R-410A, R-134a, R-744, R-22
- Temperature Sensor Options:** T1 may be used for various purposes unless an EEV is used. T1 Suction Monitor, T1 Room Temp, 2nd Coil Temp.
- Temperature Units:** Fahrenheit, Celsius
- Multi Air Temp Control:** Managed, Permanent, On w/Compressor, Title 24
- Valve Type Options:** Mechanical (default), KE2, SER/SEI 1-20, SER B-L, SEI30, SEI50, SEH, ETS 12-50, ETS 100, ETS 250/400, Carel, Custom
- Motor Type:** Unipolar, Bipolar
- Defrost Types:** Demand Defrost, Schedule Defrost, RunTime Defrost - The setpoints pertaining to the specific Defrost type selected are listed under the appropriate heading and will only be used for their respective Defrost Types.

Graphing Snapshot

What the screen shows: The Graphing Snapshot shows the past seven days of Room Temp and Coil Temp readings, as well as the number and duration of defrost cycles. It is an essential tool for system analysis and troubleshooting. The experts at KE2 Technical Support can help troubleshoot your system using this information.



* V3.3 and prior versions require Data Key activation after 6 month free trial. With V4.0 Lifetime Data Key is standard.

SiteView Screenshot

What the screen shows: SiteView provides the ability to view multiple controllers in the same network, on a single screen. If the user needs more detailed information, or to make adjustments, clicking on the name of the controller will open the Home Page of that controller.

Location	Room Temp	Room Setpoint	System Mode	Alarms
(Set Location)	5.4 F	-3.0 F	Refrigerate	
Steve's office	72.2 F	1.0 F	Refrigerate	Refrigerate Alarms

Each member may be viewed by clicking on the location name in the SiteView Master's list.

The SiteView Master may contain up to 50 members. All members must be in the same network. i.e. a router divides a network.

The SiteView may be organized by logging into the controller.

The SiteView shows a live view of each controller's performance

When the controllers are in the same network, clicking on the controller's location will open the webpage of that controller.